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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/782,632	02/19/2004	Young Hwan Kim	480-003	5105	
1009	7590 08/19/2005		EXAM	EXAMINER	
KING & SCI	HICKLI, PLLC		KAMEN,	NOAH P	
247 NORTH E	BROADWAY			D. 200 MD (200	
LEXINGTON	, KY 40507 .	·	ART UNIT	PAPER NUMBER	
			3747		

DATE MAILED: 08/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	$\neg \gamma$			
	10/782,632	KIM ET AL.				
Office Action Summary	Examiner	Art Unit	$\dashv$			
	Noah Kamen	3747				
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (8) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	. 138(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) of d will apply and will expire SIX (8) MONTHS from the, cause the application to become ABANDO)	timely filed  ays will be considered timely.  In the mailing date of this communication.  IED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u></u> .		.			
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ Th	is action is non-final.					
3) Since this application is in condition for allow	ance except for formal matters, p	rosecution as to the merits is	ł			
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) 1 and 2 is/are pending in the applica	ation.					
4a) Of the above claim(s) is/are withdra	awn from consideration.		1			
5) Claim(s) is/are allowed.		· .				
6)⊠ Claim(s) 1 and 2 is/are rejected.		•				
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examir	ner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the E	•		1			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 1196	a)-(d) or (f).	į			
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<u> </u>	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bures	·	•	I			
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail					
Notice of Dransperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		Patent Application (PTO-152)				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Southwick (1909729). Figure 1 shows the opposing pairs of pistons 37, guide rails 28,30, flywheel 50, eccentric shaft 42, and slot 45.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Du Bois (3200800) in view of Reitz (4013048) or Albertson (3517652).

Du Bois shows in figure 1 a plural number of cylinder pairs in opposing rows and sliders that ride on guide rails "G". However, there is no flywheel with an eccentric shaft sliding in a slot. The secondary references Reitz/Albertson show the eccentric 100/16 in a slot 79/14. There are a number advantages col.2, lines 42-72/col.2, line25-col.3, lines 22. It would have been obvious to one of ordinary skill in the art to use the translation mechanisms of Reitz or Albertson (commonly known as a scotch yoke) in Du Bois, for the advantages found therein.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Noah Kamen whose telephone number is 571 272 4845. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 571 272 4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Noah Kamen
Primary Examiner
Art Unit 3747

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